

USPN: 10/753,976
Dkt. No.: 6750-0013
IT02-U04.US2

PATENT

CERTIFICATE OF MAILING PURSUANT TO 37 CFR § 1.8

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9/29/04
Date

Michelle Hobson
Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Siau-Way LIEW et al.

Serial No.: 10/753,976

Filing Date: January 7, 2004

Title: METHODS OF PREDICTING
MUSCULOSKELETAL DISEASE

Examiner: Not Assigned

Group Art Unit: 3737

Confirmation No.: 6434

Customer No.: 36806

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sirs:

Enclosed is an Information Disclosure Statement and accompanying Form
PTO/SB/08A for the above-identified patent application.

- ☒ In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- ☐ In accordance with 37 C.F.R. §1.97(c), also enclosed is:
- ☐ the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
- ☐ a statement as specified in 37 C.F.R. §1.97(e).
- ☐ In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. § 1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- ☐ Check No. ___ in the amount of \$___ for the total fee is attached.


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This paper is being submitted in duplicate.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 18-1648.

Respectfully submitted,

Date: September 29, 2004

By: 
Dahna S. Pasternak
Registration No. 41,411

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**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.97(b)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sirs:

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56,
Applicant(s) hereby submits the following information in conformance with 37 C.F.R.
§§1.97 and 1.98.

- ☒ Pursuant to 37 C.F.R. §1.98, copies of the publications B1-B4 and C1- 26 cited in the attached Form PTO/SB/08 are enclosed.
- ☒ No copy of the publication A1-A2 listed on the attached Form PTO/SB/08A are being provided because the Office waives the requirement under 37 C.F.R. 1.98 (a) (2) (i) for submitting a copy of each cited U.S. patent and each U. S. patent application publication for all U.S. national patent applications filed after June 30, 2003
- ☐ No copies of the publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application

Serial No. ____ to which the above-identified application claims priority under 35 U.S.C. §120.

- ☐ Publication(s) _____ listed on the attached Form PTO/SB/08A were cited in a foreign search or examination report corresponding to _____ application serial no. _____ and mailed on _____.
- ☐ Enclosed is a copy of a non-English publication(s) _____. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
- ☐ Enclosed is a copy of a non-English publication(s) _____. English language publication ____ (copy enclosed) claims priority from this non-English publication.
- ☐ Enclosed is an explanation of non-English publication(s) ____ for which an English translation is not available.
- ☐ Enclosed is an English translation of non-English publication(s) ____ cited in the attached Form PTO/SB/08A.
- ☐ Enclosed is a copy of pending patent Application Serial No. _____.

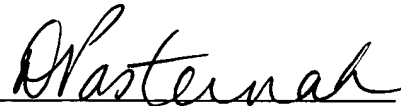
This Information Disclosure Statement is filed within any one of the following time periods:

- ☐ within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);
- ☐ within three months from the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in this international application;
- ☒ before the mailing date of a first office action on the merits; or
- ☐ before the mailing of a first office action after the filing of a request for continued examination under 37 C.F.R. §1.114.

It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08A to the undersigned.

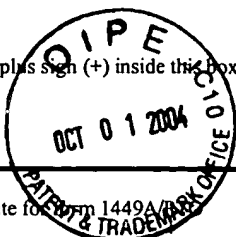
Respectfully submitted,

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By: 
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PTO/SB/08A (08-00)

Substitute form 1449A INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				<i>Complete if Known</i>	
				Application Number	10/753,976
				Filing Date	January 7, 2004
				First Named Inventor	LIEW et al.
				Group Art Unit	3737
				Examiner Name	
Sheet	1	of	3	Attorney Docket Number	6750-0013 (IT02-U04.US2)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
	A1	6,077,224		Lang et al.	06-20-2000
	A2	6,246,745	B1	Bi et al.	06-12-2001

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
	B1	WO	99/08597	A1	Mendlein, John	02-25-1999	
	B2	WO	99/45845	A1	Lang, Philipp	09-16-1999	
	B3	WO	02/22014	A1	Leland Stanford Junior University	03-21-2002	
	B4	WO	02/30283	A2, A3	Osteronet.com, Inc.	04-18-2002	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶	
	C1	ACTIVE CONTOURS; THE APPLICATION OF TECHNIQUES FROM GRAPHICS, VISION, CONTROL THEORY AND STATISTICS TO VISUAL TRACKING OF SHAPES IN MOTION, Editors Andrew Blake, Michael Isard, 1999 Springer Verlag, Title page and Table of Contents pages only (ISBN 3540762175).		
	C2	BODY CT: A PRACTICAL APPROACH, Editor Slone, 1999 McGraw-Hill publishers, Title page and Table of Contents pages only (ISBN 007058219).		
	C3	Cann CE., "QUANTITATIVE CT FOR DETERMINATION OF BONE MINERAL DENSITY: A REVIEW," Radiology 166:509-522, 1998.		
	C4	Cheal., et al., "ROLE OF LOADS & PROSTHESIS MATERIAL PROPERTIES ON THE MECHANICS OF THE PROXIMAL FEMUR AFTER TOTAL HIP ARTHROPLASTY," J. Orthop. Res., 10: 405-422, 1992.		
	C5	Cummings SR, et al. , "BONE DENSITY AT VARIOUS SITES FOR PREDICTION OF HIP FRACTURES," Lancet 341:72-75, 1993.		

¹ Unique citation designation number.

² See attached Kinds of U.S. Patent Documents.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶ Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/753,976
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				First Named Inventor	LIEW et al.
				Group Art Unit	3737
Examiner Name					
Sheet	2	of	3	Attorney Docket Number	6750-0013 (IT02-U04.US2)

C6	DIGITAL IMAGE PROCESSING, Editor Kenneth R. Castleman, 1996 Prentice Hall, publisher, Title page and Table of Contents pages only (ISBN 0132114674).	
C7	Eastell, R. "TREATMENT OF POSTMENOPAUSAL OSTEOPOROSIS," New Engl J Med 338 (11): 736-46, 1998.	
C8	ESSENTIAL PHYSICS OF MEDICAL IMAGING, Editors Bushberg, Seibert, Leidholdt Jr. & Boone, 2002 Lippincott, Williams & Wilkins, Title page and Table of Contents pages only (ISBN 0683011405).	
C9	Faulkner KG. "BONE DENSITOMETRY: CHOOSING THE RIGHT SKELETAL SITE TO MEASURE," J Clin Densitometry. 1:279-85, 1998.	
C10	Glüer C-C, et al., "PERIPHERAL MEASUREMENT TECHNIQUES FOR THE ASSESSMENT OF OSTEOPOROSIS," Semin Nucl Med 27:229-247, 1997.	
C11	Glüer C-C, "QUANTITATIVE ULTRASOUND TECHNIQUES FOR THE ASSESSMENT OF OSTEOPOROSIS—EXPERT AGREEMENT ON CURRENT STATUS," J Bone Miner Res. 12:1280-1288, 1997.	
C12	Hosking D, et al. , "PREVENTION OF BONE LOSS IN POSTMENOPAUSAL WOMEN UNDER 60 YEARS OF AGE. EARLY POSTMENOPAUSAL INTERVENTION COHORT STUDY GROUP," N Engl J Med. 338:485-492, 1998.	
C13	Marshall D., et al., "META-ANALYSIS OF HOW WELL MEASURES OF BONE MINERAL DENSITY PREDICT OCCURRENCE OF OSTEOPOROTIC FRACTURES," Br Med J. 312:1254-1259, 1996.	
C14	Njeh CF, et al., "THE ROLE OF ULTRASOUND IN THE ASSESSMENT OF OSTEOPOROSIS: A REVIEW," Osteoporosis Int 7:7-22, 1997.	
C15	Njeh CF, et al., "QUANTITATIVE ULTRASOUND: ASSESSMENT OF OSTEOPOROSIS AND BONE STATUS," London, England: Martin Dunitz, 1999 Title page and Table of Contents pages only (ISBN 1853176796).	
C16	Patel R, et al., "RADIATION DOSE TO THE PATIENT AND OPERATOR FROM A PERIPHERAL DUAL X-RAY ABSORPTIOMETRY SYSTEM," J Clin Densitom 2:397-401, 1999.	
C17	Russ, John C. "THE IMAGE PROCESSING HANDBOOK," 3 rd Edition, pp. 494-501, 1998.	
C18	Ruttimann UE, et al., "FRACTAL DIMENSION FROM RADIOGRAPHS OF PERIODONTAL ALVEOLAR BONE. A POSSIBLE DIAGNOSTIC INDICATOR OF OSTEOPOROSIS," Oral Surg Oral Med Oral Pathol 74:98-110, 1992.	
C19	Shrout, et al., "COMPARISON OF MORPHOLOGICAL MEASUREMENTS EXTRACTED FROM DIGITIZED DENTAL RADIOGRAPHS WITH LUMBAR AND FEMORAL BONE MINERAL DENSITY MEASUREMENTS IN POST," J. Periondental 71:335-340, 2000	
C20	Southard K A and Southard T E., "QUANTITATIVE FEATURES OF DIGITIZED RADIOGRAPHIC BONE PROFILES." Oral Surgery, Oral Medicine, and Oral Pathology. 73(6): 751-9, Jun 1992.	
C21	Svendsen OL, et al., "IMPACT OF SOFT TISSUE ON IN-VIVO ACCURACY OF BONE MINERAL MEASUREMENTS IN THE SPINE, HIP, AND FOREARM: A HUMAN CADAVER STUDY," J Bone Miner Res 10:868-873, 1995.	
C22	Tothill P., et al., "ERRORS DUE TO NON-UNIFORM DISTRIBUTION OF FAT IN DUAL X-RAY ABSORPTIOMETRY OF THE LUMBAR SPINE," Br J Radiol. 65:807-813, 1992.	
C23	Verhoeven, et al., "DENSITOMETRIC MEASUREMENTS OF THE MANDIBLE: ACCURACY AND VALIDITY OF INTRAORAL VERSUS EXTRAORAL RADIOGRAPHIC TECHNIQUES IN AN IN VITRO STUDY," Clin Oral Impl Res 9: 333-342, 1998.	
C24	White SC and Rudolph DJ, "ALTERATIONS OF THE TRABECULAR PATTERN IN THE JAWS OF PATIENTS WITH OSTEOPOROSIS," Oral Surg. Oral Med. Oral Pathol. Oral Radiol. and Endod. 88:628-635, 1999.	

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PTO/SB/08A (08-00)

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	C25	X-RAY STRUCTURE DETERMINATION: A PRACTICAL GUIDE, 2nd Ed. Editors Stout and Jensen, 1989, John Wiley & Sons, Title page and Table of Contents pages only (ISBN 0471607118).	
	C26	X-RAY DIAGNOSIS: A PHYSICIAN'S APPROACH, Editor Lam, 1998, Springer-Verlag publishers, Title page and Table of Contents pages only (ISBN 9813083247).	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.